

ETHERNET CABLE CONFIGURATION

INFORMATION SHEET 2.1-3

LEARNING OBJECTIVES

After reading this **INFORMATION SHEET**, STUDENT(S) MUST be able to:

 Configure ethernet cable

 Straight Through (T568B) configuration

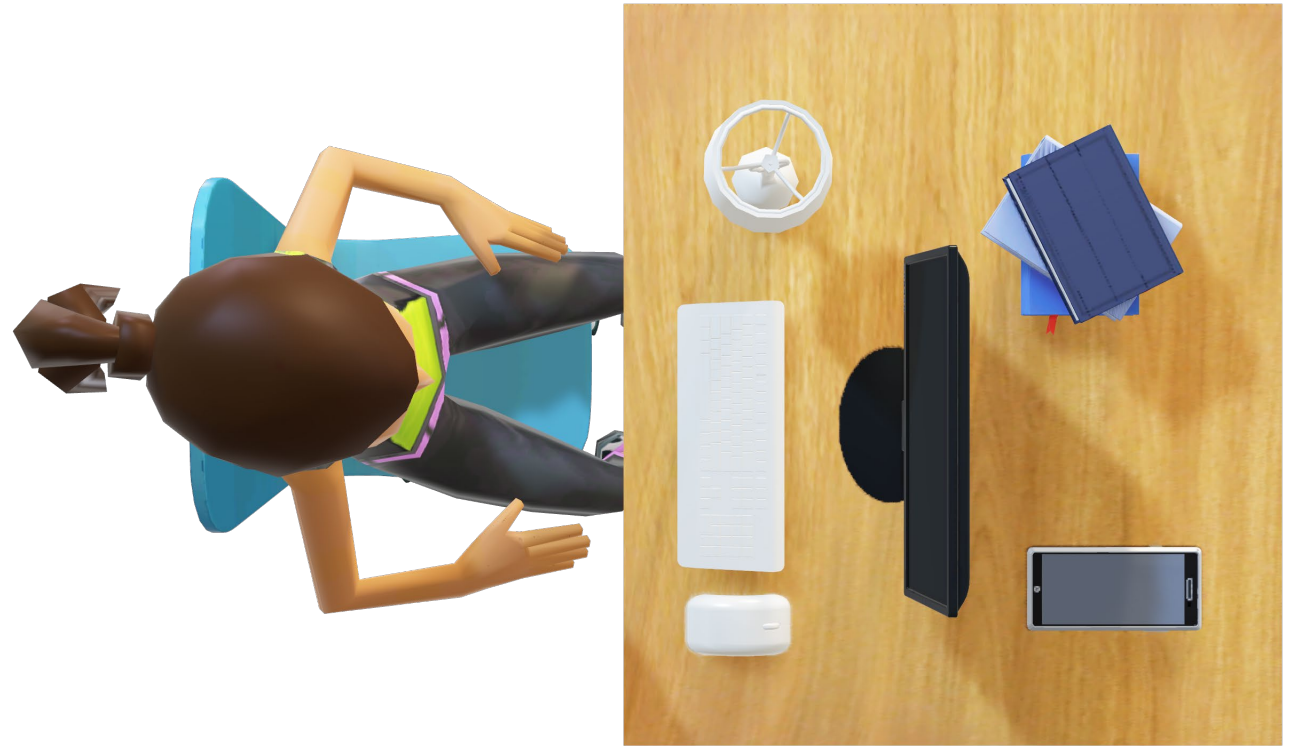
 Straight Through (T568A) configuration



INTRODUCTION

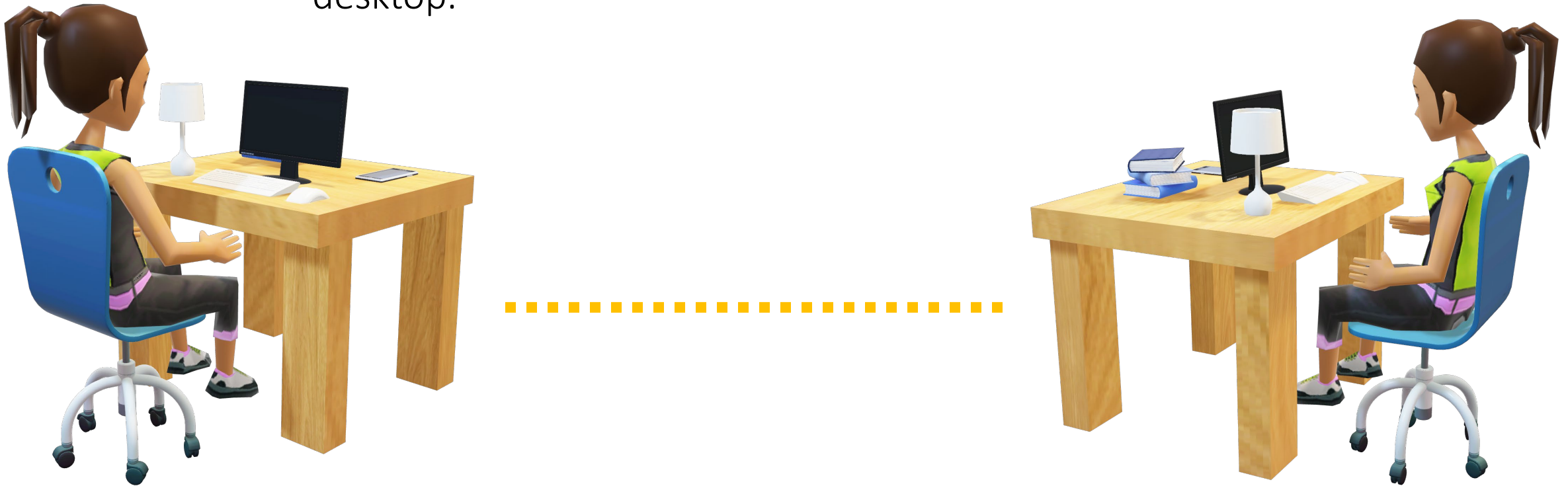
A good ethernet cable configuration termination provides a proper wire crimp. Also, important, is not unwinding the wires more than necessary.

(Read Information sheet 2.1-1 for more information about Ethernet cable configuration)



CROSSOVER CONFIGURATION

It is a type of configuration that enables users to connect similar devices such as, desktop to another desktop.

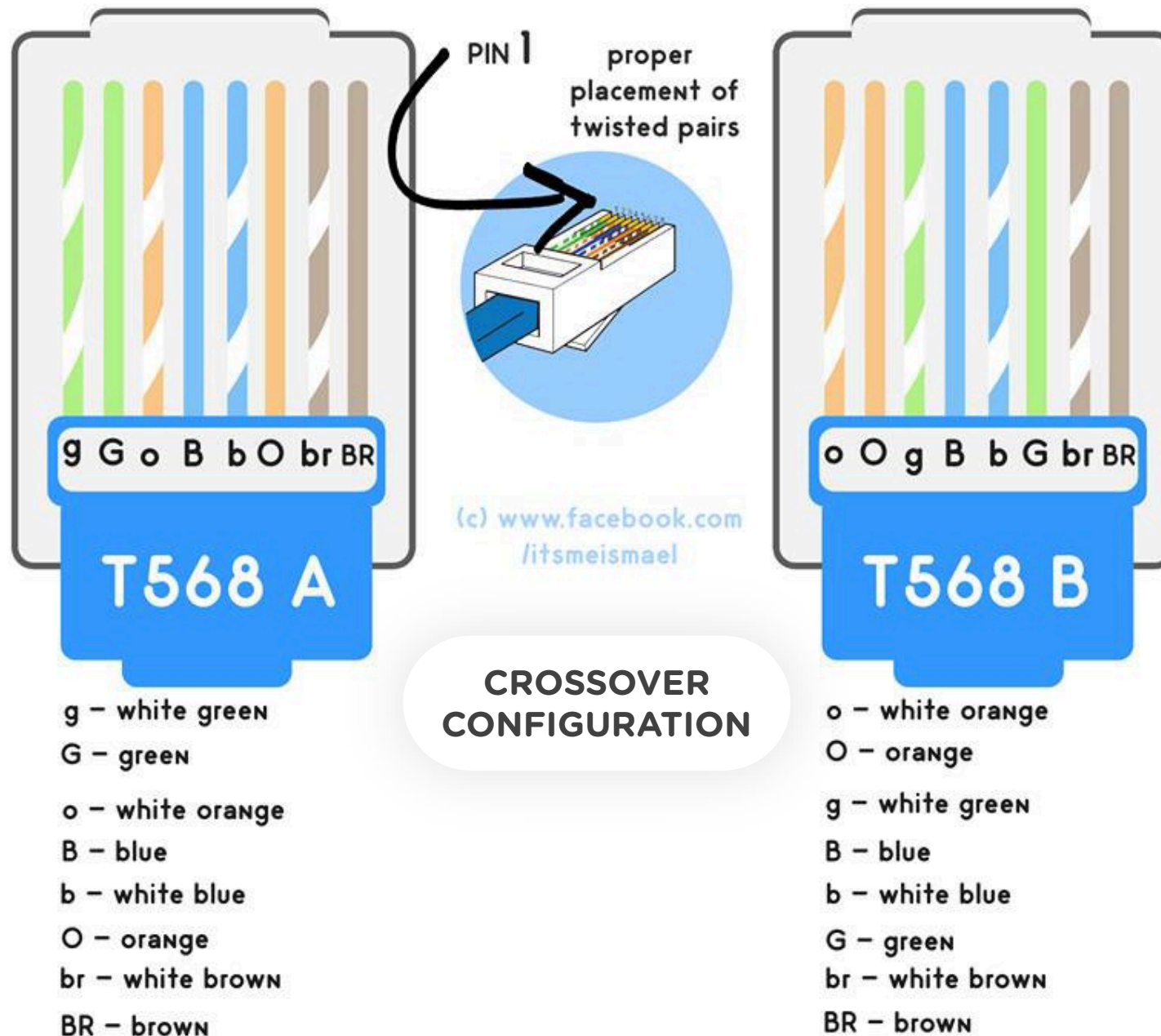


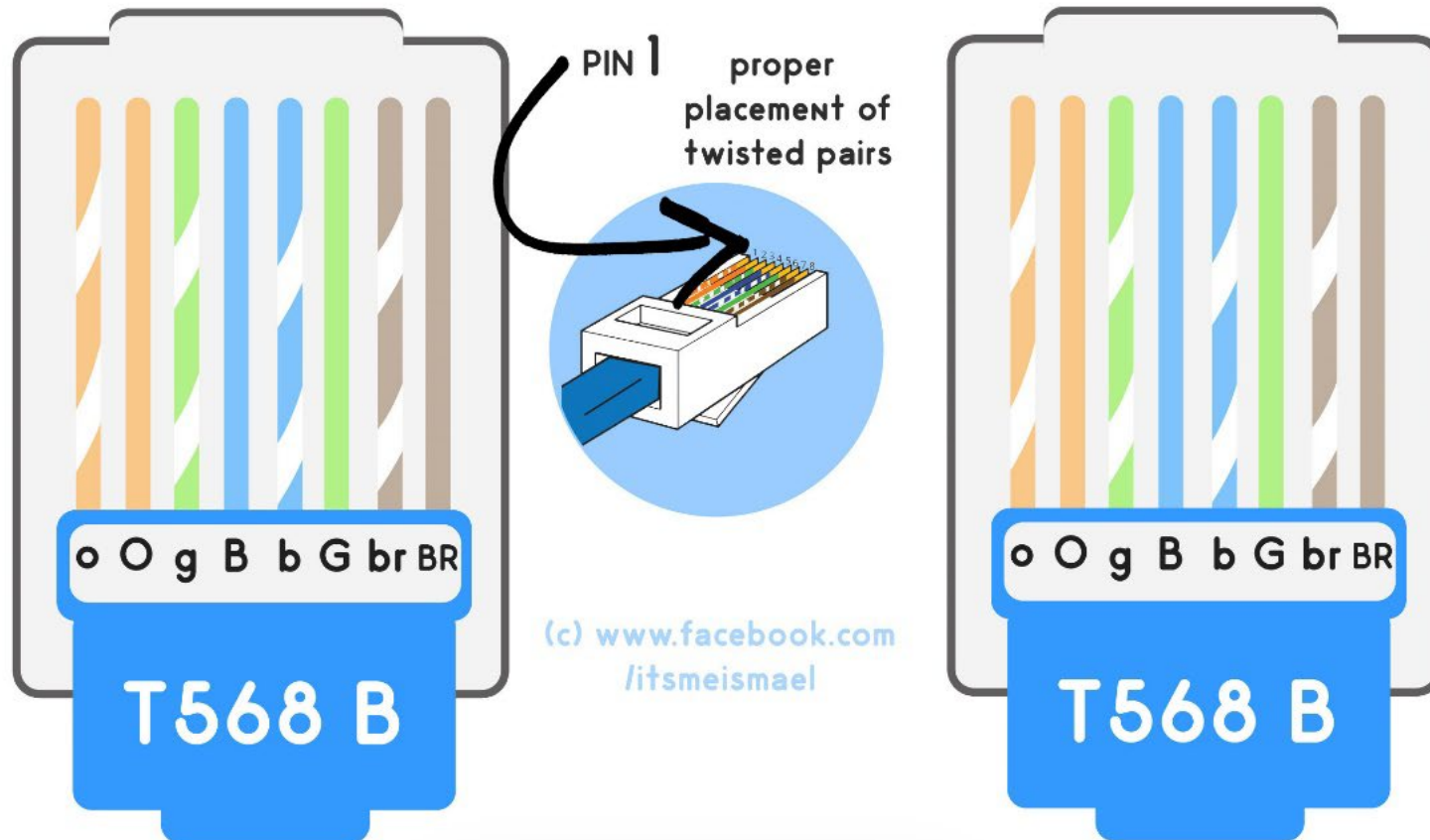
STRAIGHT THROUGH CONFIGURATION



It is a type of configuration that enables users to connect two dissimilar devices such as, desktop to switch.







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STRAIGHT THROUGH CONFIGURATION

o – white orange
O – orange
g – white green
B – blue
b – white blue
G – green
br – white brown
BR – brown

o – white orange
O – orange
g – white green
B – blue
b – white blue
G – green
br – white brown
BR – brown

HOW TO CONFIGURE

Tools and Materials

 Crimping tool

 Wire stripper

 RJ45

 Network cable tester

HOW TO CONFIGURE









PROCEDURES

1. Strip the cables jacket back one full inch.
2. Untwist the wires back to within 1/8" of the jacket.
3. Arrange the wires in the order in which you want to crimp them, (T568A, T568B, etc.).
4. Grasp the wires firmly, between your thumb and forefinger, flatten them, and even wiggle them a bit, to take out the curliness, (concentrate your efforts on the bottom 1/2") the wires must lay flat and together, aligned as close as possible.

HOW TO CONFIGURE

5. While holding the wires firmly, cut off the wires 1/2" from the cables jacket (Cut the wires with some sharp wire strippers or even high-quality scissors, avoid wire cutters that flatten the ends of the wires insulating material, this makes inserting the wires very difficult.)
6. Insert the wires into the connector, making sure the wires stay lined up. *
The wires should reach the end of the little tube they are in.
7. The jacket should go even with the end of the first indent; if possible, it's a strain relief for the cable.
8. Insert it into the crimping tool, and Crimp it!
9. Use network cable tester to test your ethernet cable.

IMPORTANT NOTES

-  A straight through cable has an identical end.
-  A crossover cable has different ends.
-  A straight-through is used as a patch cord in Ethernet connections.
-  A crossover is used to connect two Ethernet devices without a hub or for connecting two hubs/switches.
-  A crossover has one end with the Orange set of wires switched with the Green set.
-  Looking at the RJ-45 with the clip facing away from you, Brown is always on the right, and pin 1 is on the left.
-  No more than 1/2" of the Ethernet cable should be untwisted otherwise it will be susceptible to crosstalk.
-  Do not deform, do not bend, do not stretch, do not staple, do not run parallel with power cables, and do not run Ethernet cables near noise inducing components.

thank you!

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0946 448 5036